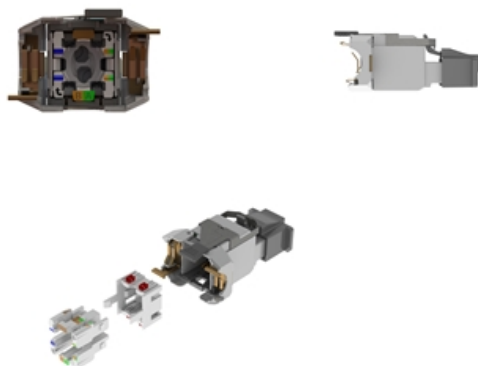


## RVAFPSME-S1 Modular Connectors - 10GX Shielded REVConnect Plug



For more Information  
please call

1-800-Belden1



### General Description:

REVConnect 10GX STP Field Mount Plug, Metal, Single Pack

### Usage (Overall)

|                               |                                                                          |
|-------------------------------|--------------------------------------------------------------------------|
| <b>Suitable Applications:</b> | 10GX Shielded System, TIA Screened Category 6A , ISO Class EA, 10GBASE-T |
| <b>Related Parts:</b>         | Refer to REVConnect WAP - CAMERA Compatibility Guide                     |

### Physical Characteristics (Connectivity)

#### Dimensions

Dimensions:

| Height (in.) | Width (in.) | Depth (in.) |
|--------------|-------------|-------------|
| 0.730        | 1.100       | 1.810       |

#### Materials

Materials:

| Description      | Type       | Material                                                             |
|------------------|------------|----------------------------------------------------------------------|
| Front Connection | RJ45       | Ethylene Propylene                                                   |
| Rear Connection  | REVConnect | Copper Clad Flexible PCB, Gold plated contacts over Palladium/Nickel |
| Connector Body   | N/A        | Nickel plated zinc alloy diecast                                     |

#### Wiring Scheme

|                       |         |
|-----------------------|---------|
| <b>Wiring Scheme:</b> | T568A/B |
|-----------------------|---------|

#### Weight

|                |            |
|----------------|------------|
| <b>Weight:</b> | 0.048 lbs. |
|----------------|------------|

#### Packaging

|                   |                                         |
|-------------------|-----------------------------------------|
| <b>Packaging:</b> | Individually packaged in a plastic bag. |
|-------------------|-----------------------------------------|

### Mechanical Characteristics (Connectivity)

|                                   |            |
|-----------------------------------|------------|
| <b>Footprint/Type:</b>            | KeyConnect |
| <b>Plug / Jack Compatibility:</b> | RJ45       |

Termination Interface:

| Termination | Connection       | Durabilities |
|-------------|------------------|--------------|
| Front       | Mated Connection | 750 cycles   |
| Rear        | Mated Connection | 20 cycles    |

|                                   |         |
|-----------------------------------|---------|
| <b>Cable/Connector Retention:</b> | 15 lbs. |
|-----------------------------------|---------|

|                                      |         |
|--------------------------------------|---------|
| <b>Connector/Hardware Retention:</b> | 20 lbs. |
|--------------------------------------|---------|

|                                  |             |
|----------------------------------|-------------|
| <b>Plug/Connector Retention:</b> | 11.250 lbs. |
|----------------------------------|-------------|

|                                   |                |
|-----------------------------------|----------------|
| <b>Storage Temperature Range:</b> | -40°C To +70°C |
|-----------------------------------|----------------|

|                                        |                |
|----------------------------------------|----------------|
| <b>Installation Temperature Range:</b> | -10°C To +60°C |
|----------------------------------------|----------------|

|                                     |                |
|-------------------------------------|----------------|
| <b>Operating Temperature Range:</b> | -10°C To +60°C |
|-------------------------------------|----------------|

|                            |                          |
|----------------------------|--------------------------|
| <b>Tool Compatibility:</b> | RVUTT01 Termination Tool |
|----------------------------|--------------------------|

## RVAFPSME-S1 Modular Connectors - 10GX Shielded REVConnect Plug

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |                                                                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UL Rating:                            | UL94V-0                                                                                                                                                                |
| IEEE Specification:                   | Power Over Ethernet (PoE) IEEE 802.3at type 1 and 2 (up to 30W), IEEE802.3bt/D1.7 type 3 and 4 (up to 100W), CISCO UPOE (up to 60W), Power over HDBaseTTM (up to 100W) |
| EU Directive 2002/95/EC (RoHS):       | Yes                                                                                                                                                                    |
| EU RoHS Compliance Date (mm/dd/yyyy): | 07/01/2006                                                                                                                                                             |
| MII Order #39 (China RoHS):           | EUP 50                                                                                                                                                                 |
| Telecommunications Standards:         | Category 6A - TIA 568.C.2, Category 6A - ISO/IEC 11801:2002 Ed.2                                                                                                       |
| Safety Listing:                       | c(UL)us Listed                                                                                                                                                         |
| Other Specification:                  | UL 1863, IEC 60603-7, FCC part 68-F                                                                                                                                    |

## Flame Test

|                |                            |
|----------------|----------------------------|
| UL Flame Test: | UL2043 Air Handling Spaces |
|----------------|----------------------------|

## Suitability

|                       |              |
|-----------------------|--------------|
| Suitability - Indoor: | Yes - Indoor |
|-----------------------|--------------|

## Transmission Characteristics (Connectivity)

Mated Connection Table 1:

| Frequency (MHz) | Max. Insertion Loss TIA* (dB) | Max. Insertion Loss Belden** (dB) | Min. NEXT TIA* (dB) | Min. NEXT Belden** (dB) | Min. FEXT TIA* (dB) | Min. FEXT Belden** (dB) |
|-----------------|-------------------------------|-----------------------------------|---------------------|-------------------------|---------------------|-------------------------|
| 1.000           | 0.100                         | 0.050                             | 75.000              | 77.000                  | 75.000              | 80.000                  |
| 4.000           | 0.100                         | 0.050                             | 75.000              | 77.000                  | 71.100              | 75.100                  |
| 8.000           | 0.100                         | 0.050                             | 75.000              | 77.000                  | 65.000              | 69.000                  |
| 10.000          | 0.100                         | 0.050                             | 74.000              | 76.000                  | 63.100              | 67.100                  |
| 16.000          | 0.100                         | 0.060                             | 69.900              | 71.900                  | 59.000              | 63.000                  |
| 20.000          | 0.100                         | 0.070                             | 68.000              | 70.000                  | 57.100              | 61.100                  |
| 25.000          | 0.100                         | 0.080                             | 66.000              | 68.000                  | 55.100              | 59.100                  |
| 31.250          | 0.110                         | 0.090                             | 64.100              | 66.100                  | 53.200              | 57.200                  |
| 62.500          | 0.160                         | 0.140                             | 58.100              | 60.100                  | 47.200              | 51.200                  |
| 100.000         | 0.200                         | 0.180                             | 54.000              | 56.000                  | 43.100              | 47.100                  |
| 200.000         | 0.280                         | 0.260                             | 48.000              | 50.000                  | 37.100              | 41.100                  |
| 250.000         | 0.320                         | 0.300                             | 46.000              | 47.900                  | 35.100              | 39.100                  |
| 300.000         | 0.350                         | 0.330                             | 42.900              | 45.200                  | 33.600              | 37.600                  |
| 400.000         | 0.400                         | 0.380                             | 37.900              | 40.800                  | 31.100              | 35.100                  |
| 500.000         | 0.450                         | 0.430                             | 34.000              | 37.400                  | 29.100              | 33.100                  |
| 625.000         |                               | 0.480                             |                     | 34.000                  |                     | 31.200                  |

Mated Connection Table - Footnote:

\* TIA/EIA-568-C.2 Category 6A Standard.

\*\* Worst-case performance for a 10GX mated connection using 10GX modular plugs. Compliant with TIA/EIA-568-C.2 Category 6A Standard and ISO/IEC 11801:2002 Amendment 2.

Mated Connection Table 2:

| Frequency (MHz) | Min. Return Loss TIA* (dB) | Min. Return Loss Belden** (dB) | Min. PSANEXT TIA* (dB) | Min. PSANEXT Belden** (dB) | Min. PSAACRF TIA* (dB) | Min. PSAACRF Belden** (dB) | Min. Balanced TCL TIA* (dB) | Min. Balanced TCL Belden** (dB) |
|-----------------|----------------------------|--------------------------------|------------------------|----------------------------|------------------------|----------------------------|-----------------------------|---------------------------------|
| 1.000           | 30.000                     | 34.100                         | 70.500                 | 75.000                     | 67.000                 | 75.000                     | 40.000                      | 45.000                          |
| 4.000           | 30.000                     | 34.100                         | 70.500                 | 75.000                     | 67.000                 | 75.000                     | 40.000                      | 45.000                          |
| 8.000           | 30.000                     | 34.100                         | 70.500                 | 75.000                     | 67.000                 | 75.000                     | 40.000                      | 45.000                          |
| 10.000          | 30.000                     | 34.100                         | 70.500                 | 75.000                     | 67.000                 | 75.000                     | 40.000                      | 45.000                          |
| 16.000          | 30.000                     | 34.100                         | 70.500                 | 75.000                     | 67.000                 | 75.000                     | 40.000                      | 45.000                          |
| 20.000          | 30.000                     | 34.100                         | 70.500                 | 75.000                     | 67.000                 | 75.000                     | 40.000                      | 45.000                          |
| 25.000          | 30.000                     | 34.100                         | 70.500                 | 75.000                     | 67.000                 | 75.000                     | 40.000                      | 45.000                          |
| 31.250          | 30.000                     | 34.100                         | 70.500                 | 75.000                     | 67.000                 | 75.000                     | 38.100                      | 45.000                          |
| 62.500          | 30.000                     | 34.100                         | 70.500                 | 75.000                     | 67.000                 | 75.000                     | 32.100                      | 39.100                          |
| 100.000         | 28.000                     | 30.000                         | 70.500                 | 75.000                     | 67.000                 | 75.000                     | 28.000                      | 35.000                          |
| 200.000         | 22.000                     | 24.000                         | 64.500                 | 75.000                     | 61.000                 | 75.000                     | 22.000                      | 29.000                          |
| 250.000         | 20.000                     | 22.000                         | 62.500                 | 75.000                     | 59.000                 | 75.000                     | 20.000                      | 27.000                          |
| 300.000         | 18.500                     | 19.500                         | 61.000                 | 75.000                     | 57.500                 | 75.000                     | 18.500                      | 25.500                          |
| 400.000         | 16.000                     | 17.000                         | 58.500                 | 75.000                     | 55.000                 | 75.000                     | 16.000                      | 23.000                          |
| 500.000         | 14.000                     | 15.000                         | 56.500                 | 75.000                     | 53.000                 | 73.000                     | 14.000                      | 21.000                          |
| 625.000         |                            | 13.000                         |                        | 75.000                     |                        | 70.000                     |                             | 19.100                          |

|                      |                                                      |
|----------------------|------------------------------------------------------|
| Dielectric Strength: | 1,000 V RMS @ 60 Hz for 1 minute (Signals to Ground) |
|----------------------|------------------------------------------------------|

|                 |         |
|-----------------|---------|
| Current Rating: | 1.500 A |
|-----------------|---------|

## RVAFPSME-S1 Modular Connectors - 10GX Shielded REVConnect Plug

|                          |                   |
|--------------------------|-------------------|
| Insulation Resistance:   | 500 M-Ohm Minimum |
| Max. Contact Resistance: | 20 m-Ohm          |
| Termination Resistance:  | 2.5 m-Ohm         |

**Notes (Overall)**

**Notes:** Please see Installation Guide PX106435.

**Product Family****Put Ups and Colors:**

| Item #      | Putup | Ship Weight | Color | Notes | Item Desc               |
|-------------|-------|-------------|-------|-------|-------------------------|
| RVAFPSME-S1 | 1 EA  | 0.060 LB    |       | Q     | REVConn 10GX Plug Metal |

**Notes:**

Q = STANDARD PACKAGES CANNOT BE BROKEN.

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